

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits  | Search Query                       | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|-------|------------------------------------|---|------------------|---------|---------------------|
| S1    | 2     | ("6888031").PN.                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/11/26<br>20:02 |
| S2    | 6     | ((OLIVER) near2 (HUTTENLOCH)).INV. | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2008/02/27<br>17:15 |
| S3    | 16    | ((MATTHIAS) near2 (MAASE)).INV.    | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2008/02/27<br>17:17 |
| S4    | 1     | ((TONI) near2 (FLAJS)).INV.        | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2008/02/27<br>17:20 |
| S5    | 17    | ((JURGEN) near2 (WERNER)).INV.     | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2008/02/27<br>17:20 |
| S6    | 2     | ("4987202").PN.                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/02/27<br>18:06 |
| S7    | 0     | ("sodiumnear3dispersion").PN.      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/02/27<br>18:24 |
| S8    | 12278 | sodium near3 dispersion            | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/02/27<br>18:25 |
| S9    | 2336  | acylphosphines                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/02/27<br>18:25 |
| S10   | 9     | S8 and S9                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/02/27<br>18:25 |

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| S11 | 418    | sodium adj particle  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/27<br>18:28 |
| S12 | 1      | S10 and S11  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/27<br>18:28 |
| S13 | 159    | S11 and S8   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/27<br>18:28 |
| S14 | 78135  | phosphines   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/27<br>18:28 |
| S15 | 6      | S13 and S14  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/27<br>18:29 |
| S16 | 12     | ("4298738"   "5276219"   "5321148"  <br>"5472992"   "5912378"   "6888031").<br>PN. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/27<br>18:58 |
| S17 | 6      | "4987202"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/22<br>10:28 |
| S18 | 2535   | acylphosphines   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/22<br>10:31 |
| S19 | 183801 | S18 and acid halide?   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/22<br>10:31 |

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| S20 | 132   | S18 and (acid near2 halid?)           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 10:31 |
| S21 | 54    | S18 not oxide                         | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 10:59 |
| S22 | 4     | S21 and (acid near2 halid?)           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 11:00 |
| S23 | 12627 | sodium near3 dispersion               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 11:08 |
| S24 | 243   | S23 same alcohol?                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 11:08 |
| S25 | 19    | S23 with alcohol?                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 11:09 |
| S26 | 1643  | phosphorous near3 halide              | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 12:44 |
| S27 | 218   | organic near2 phosphorus near2 halide | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 12:45 |
| S28 | 4     | S23 and S27                           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 12:46 |

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| S29 | 1251 | (prepare or preparation) same (phosphorus near2 halide) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 12:48 |
| S30 | 332  | S29 same sodium   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 12:48 |
| S31 | 63   | S30 and dispersion                                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 12:49 |
| S32 | 27   | (organic near2 phosphorus near2 halide) same sodium     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 12:51 |
| S33 | 52   | "5399770"   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/22 13:13 |
| S34 | 13   | "2377109"   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/23 11:32 |
| S35 | 6    | "6759096"   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/23 11:55 |
| S36 | 103  | (sodium near3 dispersion) with (butanol or propanol)    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/23 12:17 |
| S37 | 15   | S36 and phosphine                                       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/23 12:18 |

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| S38 | 1606 | 568/8,14,15,13.ccls.                               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>12:28 |
| S39 | 16   | S38 and (sodium near3 dispersion)                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>12:28 |
| S40 | 40   | (sodium near3 dispersion) with butanol             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>12:54 |
| S41 | 159  | dispersion near5 metallic near2 sodium             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>12:55 |
| S42 | 18   | S41 and (butanol or propanol)                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>12:55 |
| S43 | 6728 | sodium near2 dispersion                            | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>14:49 |
| S44 | 71   | S43 with toluene and butanol                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>14:50 |
| S45 | 29   | metal\$4 near4 sodium near4 dispersion near4 agent | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>15:03 |
| S46 | 1    | S45 and (butanol or propanol)                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>15:03 |

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| S47 | 12   | "2642344"                           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>15:26 |
| S48 | 10   | ((herbert) near3 (livingston)).inv. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>15:55 |
| S49 | 5    | S48 and dispersions                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>15:55 |
| S50 | 1    | S49 and toluene                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>15:56 |
| S51 | 804  | 568/13,15.ccls.                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/19<br>10:22 |
| S52 | 48   | 562/876.ccls.                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/19<br>10:22 |
| S53 | 3116 | acylphosphines                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/19<br>10:24 |
| S54 | 28   | S51 and S53                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/19<br>10:24 |
| S55 | 15   | S54 and (purity or pure or purify)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/19<br>10:24 |

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| S56 | 5 | S52 and S53   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/19<br>11:06 |
| S57 | 3 | S53 and (purity or pure or purify) and (sodium near2 particle?) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/19<br>11:11 |
| S58 | 1 | S53 and (sodium near2 particle?<br>near4 dispersion)            | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/19<br>11:12 |

**EAST Search History (Interference)**

| Ref # | Hits | Search Query                      | DBs         | Default Operator | Plurals | Time Stamp       |
|-------|------|-----------------------------------|-------------|------------------|---------|------------------|
| S59   | 484  | 568/13,15.ccls.                   | USPAT; UPAD | OR               | ON      | 2009/12/19 11:12 |
| S60   | 26   | 562/876.ccls.                     | USPAT; UPAD | OR               | ON      | 2009/12/19 11:13 |
| S61   | 1172 | acylphosphines                    | USPAT; UPAD | OR               | ON      | 2009/12/19 11:13 |
| S62   | 22   | S59 and S61                       | USPAT; UPAD | OR               | ON      | 2009/12/19 11:13 |
| S63   | 0    | S62 and (sodium near3 dispersion) | USPAT; UPAD | OR               | ON      | 2009/12/19 11:14 |
| S64   | 0    | S62 and (sodium with dispersion)  | USPAT; UPAD | OR               | ON      | 2009/12/19 11:14 |
| S65   | 1    | S60 and S61                       | USPAT; UPAD | OR               | ON      | 2009/12/19 11:14 |
| S66   | 0    | S65 and (sodium with dispersion)  | USPAT; UPAD | OR               | ON      | 2009/12/19 11:15 |

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